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By: Nancy RamosPrinted: Nancy Ramos

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Goli et al.

Title: A NOVEL GLUTATHIONE S-TRANSFERASE

Serial No.: To Be Assigned

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Examiner: To Be Assigned

Group Art Unit: To Be Assigned

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Official Draftsman

Commissioner for Patents

Washington, D.C. 20231

## SUBMISSION OF FORMAL DRAWINGS

Sir:

Transmitted herewith are Figures 1A, 1B, 1C, 2A, 2B, 3, 4, 5, 6, 7, 8, 9 as twelve (12) sheets of formal drawings for this application. Each sheet of drawing indicates the identifying indicia suggested in 37 CFR Section 1.84(c) on the reverse side of the drawings.

Applicants believe that no fee is due with this paper. However, if the Commissioner determines that a fee is necessary, the Commissioner is hereby authorized to charge any additional fees associated with this communication or credit any overpayment to Deposit Account No. **09-0108. A duplicate copy of this communication is enclosed.**

If there are any questions regarding the above, the Examiner is invited to call the undersigned at 650-855-0555.

Respectfully submitted,

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	9	18	27	36	45	54
5' ATG GCA GCA AGG CCC AAG CTC CAC TAT CCC AAC GGA AGA GGC CGG ATG GAG TCC M A A R P K L H Y P N G R G R M E S						
	63	72	81	90	99	108
GTG AGA TGG GTT TTA GCT GCC GCC GGA GTC GAG TTT GAT GAA GAA TTT CTG GAA V R W V L A A A G V E F D E E F L E						
	117	126	135	144	153	162
ACA AAA GAA CAG TTG TAC AAG TTG CAG GAT GGT AAC CAC CAC CTG TTC CAA CAA T K E Q L Y K L Q D G N H L L F Q Q						
	171	180	189	198	207	216
GTG CCC ATG GTT GAA ATT GAC GGG ATG AAG TTG GTA CAG ACC CGA AGC ATT CTC V P M V E I D G M K L V Q T R S I L						
	225	234	243	252	261	270
CAC TAC ATA GCA GAC AAG CAC AAT CTC TTT GGC AAG AAC CTC AAG GAG AGA ACC H Y I A A D K H N L L F G G K K N L L K E R T						
	279	288	297	306	315	324
CTG ATT GAC ATG TAC GTG GAG GGG ACA CTG GAT CTG CTG GAA CTG CTT ATC ATG L I D M Y V E G T L L D L L E L L I M						

**FIGURE 1A**

333	CAT CCT TTC TTA AAA CCA GAT GAT CAG CAA AAG GAA GTG GTT AAC ATG GCC CAG	360	369	378
	H P F L K P D D Q Q Q K E V V N M A Q			
387	AAG GCT ATA ATT AGA TAC TTT CCT GTG TTT GAA AAG ATT TTA AGG GGT CAC GGA	414	423	432
	K A I I R Y F F P V F E K I L R G H G			
441	CAA AGC TTT CTT GTT GGT AAT CAG CTG AGC CTT GCA GAT GTG ATT TTA CTC CAA	468	477	486
	Q S F L V G N Q L S L A D V I L L Q			
495	ACC ATT TTA GCT CTA GAA GAG AAA ATT CCT AAT ATC CTG TCT GCA TTT CCT TTC	522	531	540
	T I L A L E E K I P N I L S A F P F			
549	CTC CAG GAA TAC ACA GTG AAA CTA AGT AAT ATC CCT ACA ATT AAG AGA TTC CTT	576	585	594
	L Q E Y T V K L S N I P T I K R F L			
603	GAA CCT GGC AGC AAG AAG CCT CCC CCT GAT GAA ATT TAT GTG AGA ACC GTC	630	639	648
	E P G S K K K P P P P D E I Y V R T V			

FIGURE 1B

657	TAC AAC ATC TTT	666	CCA TAA AAC AAC ACA TCC ATG TGT	684	GAG TGA CAG	693	TGT GTT	702
Y N I F R P								
711	CCT AGA GAT GGT ATT	720	GTC TAC AGT CAT GTC TTA ATG GAT	738	CCC AGC TCT	747	GTC	756
765	GTG CTA TCT ATG TAT TAA GTT GGG TCC TAA GTT GGG TCT	774	TAT TAA GTT GGG TCC TAA GTT GGG TCT	783	TTT GT			

FIGURE 1C

1	M	A	A	R	P	K	L	H	Y	P	N	G	R	G	R	M	E	S	V	R	W	V	L	A	A	A	G	V	E	F	D	E	E	F	L	E	T	K	E	Q	H	G	S	T
1	M	A	E	K	P	K	L	H	Y	S	N	T	R	G	R	M	E	S	I	R	W	L	L	A	A	A	G	V	E	F	E	E	K	F	I	K	S	A	E	D	9825605			
1	M	A	E	K	P	K	L	H	Y	F	N	A	R	G	R	M	E	S	T	R	W	L	L	A	A	A	G	V	E	F	E	E	K	F	I	K	S	A	E	D	9259141			
1	M	A	A	K	P	K	L	Y	Y	F	N	G	R	G	R	M	E	S	I	R	W	L	L	A	A	A	G	V	E	F	E	E	F	L	E	T	R	E	Q	9193710				
41	L	Y	K	L	Q	D	G	N	H	L	L	F	Q	Q	V	P	M	V	E	I	D	G	M	K	L	V	Q	T	R	S	I	L	H	Y	I	A	D	K	H	N	H	G	S	T
41	L	D	K	L	R	N	D	G	Y	L	M	F	Q	Q	V	P	M	V	E	I	D	G	M	K	L	V	Q	T	R	A	I	L	N	Y	I	A	S	K	Y	N	9825605			
41	L	D	K	L	R	N	D	G	Y	L	M	F	Q	Q	V	P	M	V	E	I	D	G	M	K	L	V	Q	T	R	A	I	L	N	Y	I	A	S	K	Y	N	9259141			
41	Y	E	K	M	Q	K	D	G	H	L	L	F	G	Q	V	P	L	V	E	I	D	G	M	L	T	Q	T	R	A	I	L	S	Y	L	A	A	K	Y	N	9193710				
81	L	F	G	K	N	L	K	E	R	T	L	I	D	M	Y	V	E	G	T	L	D	L	L	E	L	L	I	M	H	P	F	L	K	P	D	D	Q	Q	K	E	H	G	S	T
81	L	Y	G	K	D	I	K	E	K	A	L	I	D	M	Y	I	E	G	I	A	D	L	G	E	M	I	L	L	L	P	F	T	Q	P	E	E	Q	D	A	K	9825605			
81	L	Y	G	K	D	I	K	E	R	A	L	I	D	M	Y	I	E	G	I	A	D	L	G	E	M	I	L	L	L	P	V	C	P	P	E	E	K	D	A	K	9259141			
81	L	Y	G	K	D	L	K	E	R	V	R	I	D	M	Y	A	D	G	T	Q	D	L	M	M	M	I	A	V	A	P	F	K	T	P	K	E	K	E	S	9193710				
121	V	V	N	M	A	Q	K	A	I	I	R	Y	F	F	V	F	E	K	I	L	R	G	H	G	Q	S	F	L	V	G	N	Q	L	S	L	A	D	V	I	L	H	G	S	T
121	L	A	L	I	Q	E	K	T	K	N	R	Y	F	F	P	A	F	E	K	V	L	K	S	H	G	Q	D	Y	L	V	G	N	K	L	S	R	A	D	I	H	L	9825605		
121	L	A	L	I	K	E	K	I	K	N	R	Y	F	F	P	A	F	E	K	V	L	K	S	H	G	Q	D	Y	L	V	G	N	K	L	S	R	A	D	I	H	L	9259141		
121	Y	D	L	I	L	S	R	A	K	T	R	Y	F	F	V	F	E	K	I	L	K	D	H	G	E	A	F	L	V	G	N	Q	L	S	W	A	D	I	Q	L	9193710			

FIGURE 2A

161	L Q T I L A L E E K I P N I L S A F P F L Q E Y T V K L S N I P T I K R F L E P H G S T
161	V E L L Y Y V E E L D S S L I S S F P L L K A L K T R I S N L P T V K K F L Q P g825605
161	V E L L Y Y V E E L D S S L I S S F P L L K A L K T R I S N L P T V K K F L Q P g259141
161	L E A I L M V E E L S A P V L S D F P L L Q A F K T R I S N I P T I K K F L Q P g193710
201	G S K K K P P P D E I Y V R T V Y N I F R P H G S T
201	G S P R K P P M D E K S L E E S R K I F R F g825605
201	G S P R K P P M D E K S L E E A R K I F R F g259141
201	G S Q R K P P P D G P Y V E V R I V L K F g193710

**FIGURE 2B**

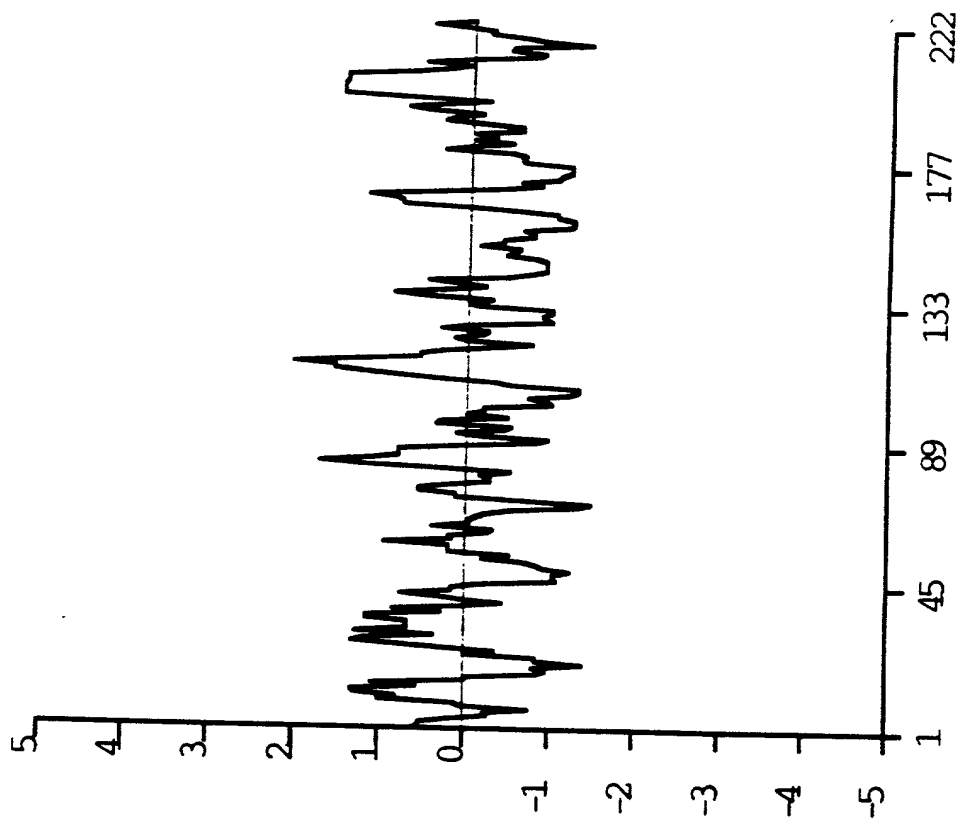


FIGURE 3

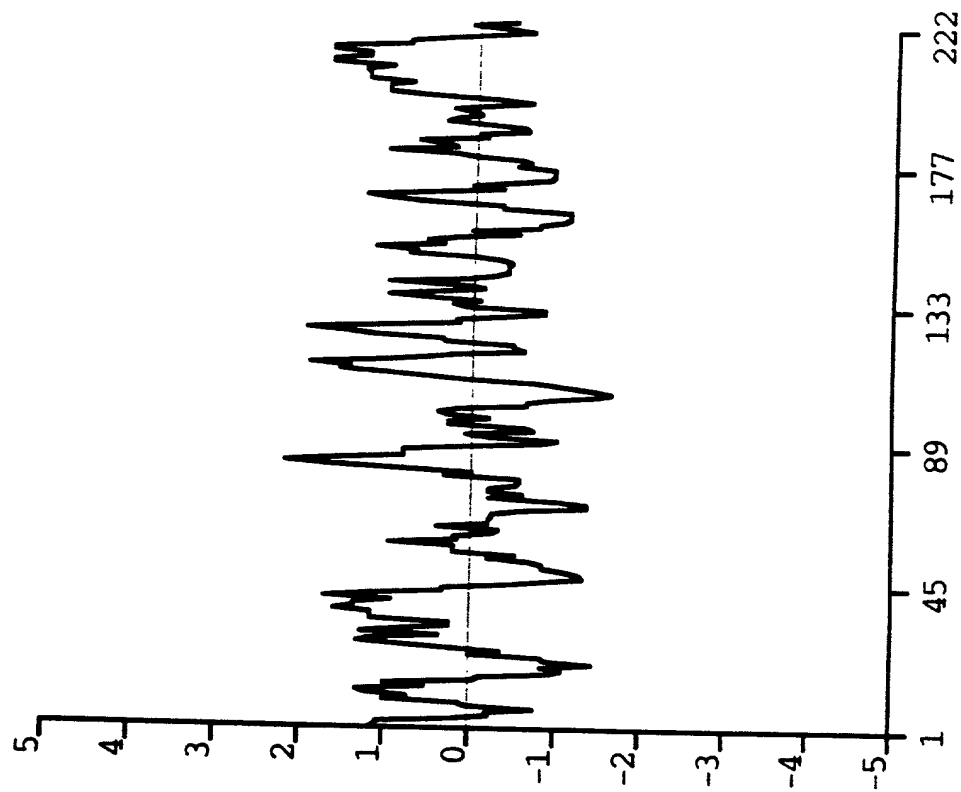


FIGURE 4

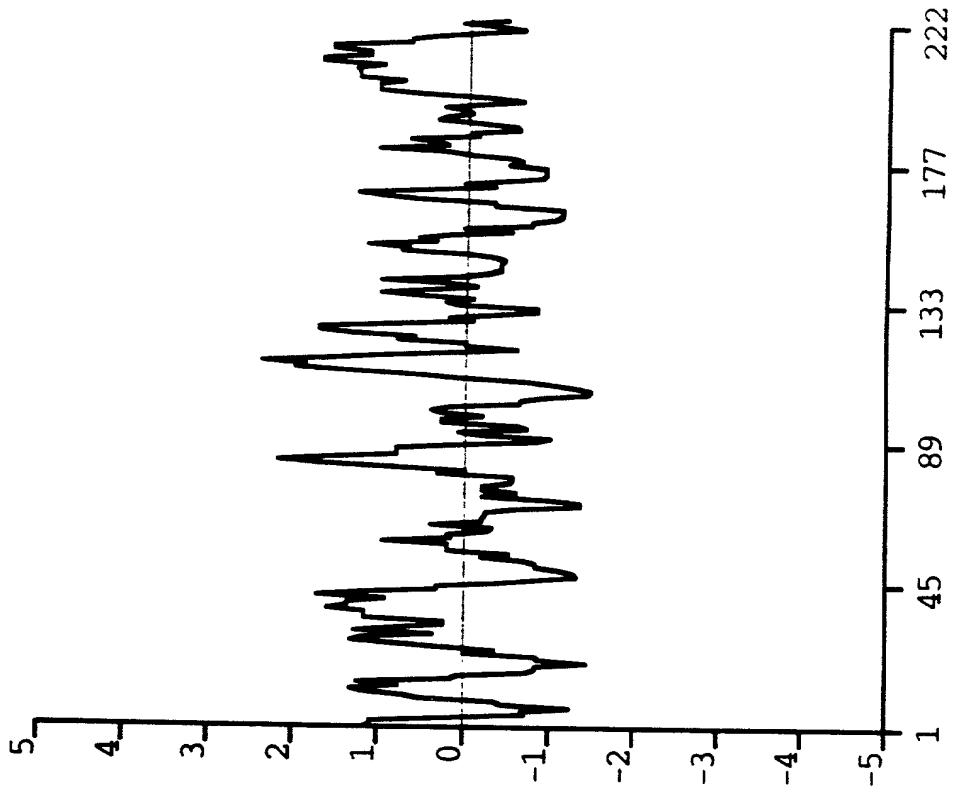


FIGURE 5

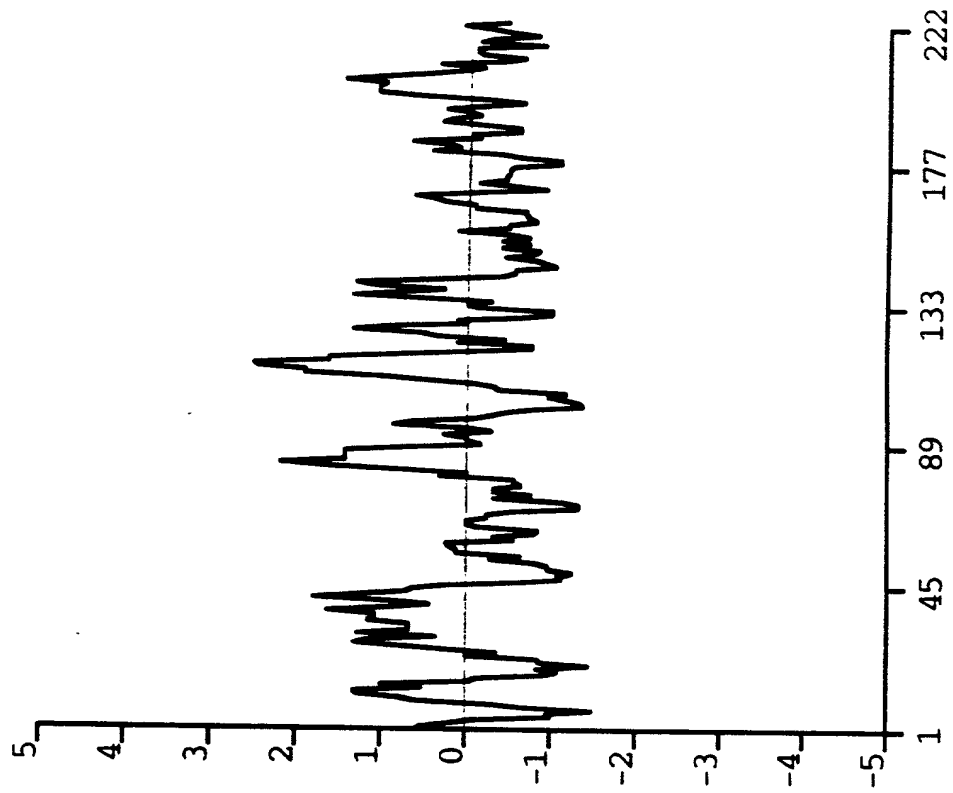


FIGURE 6

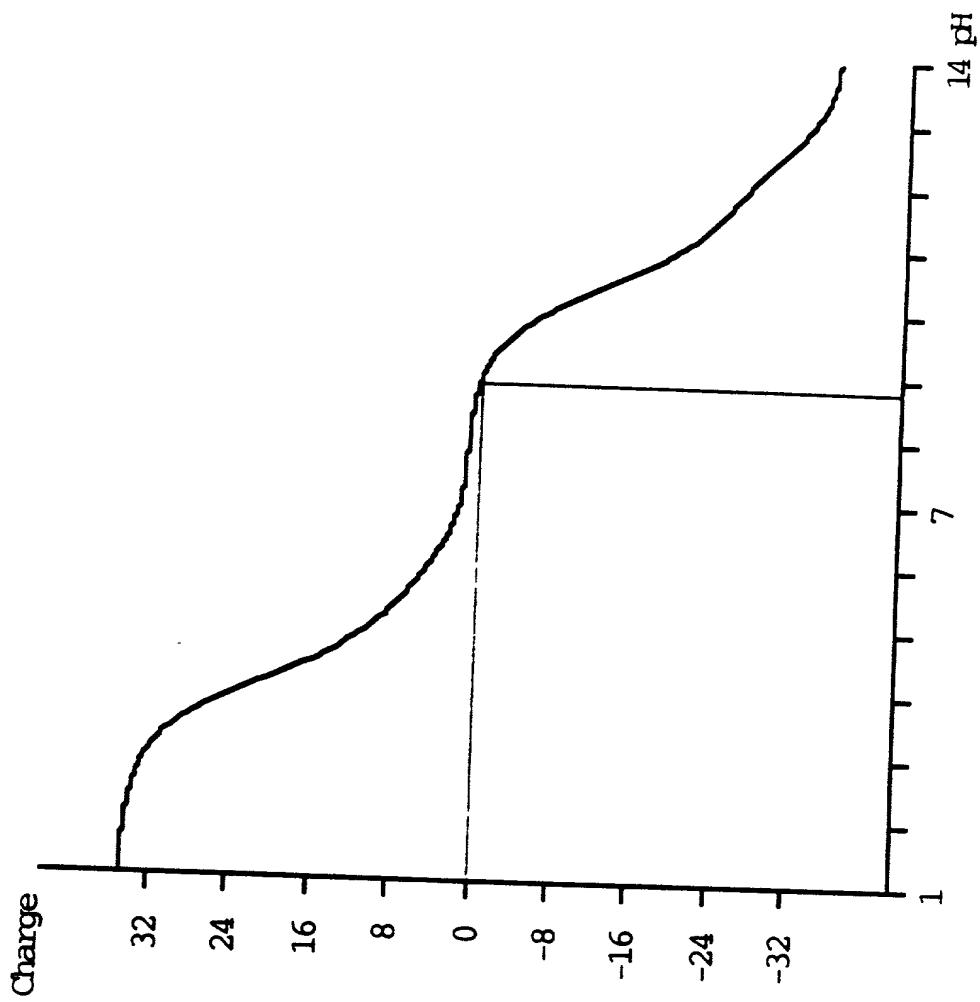


FIGURE 7

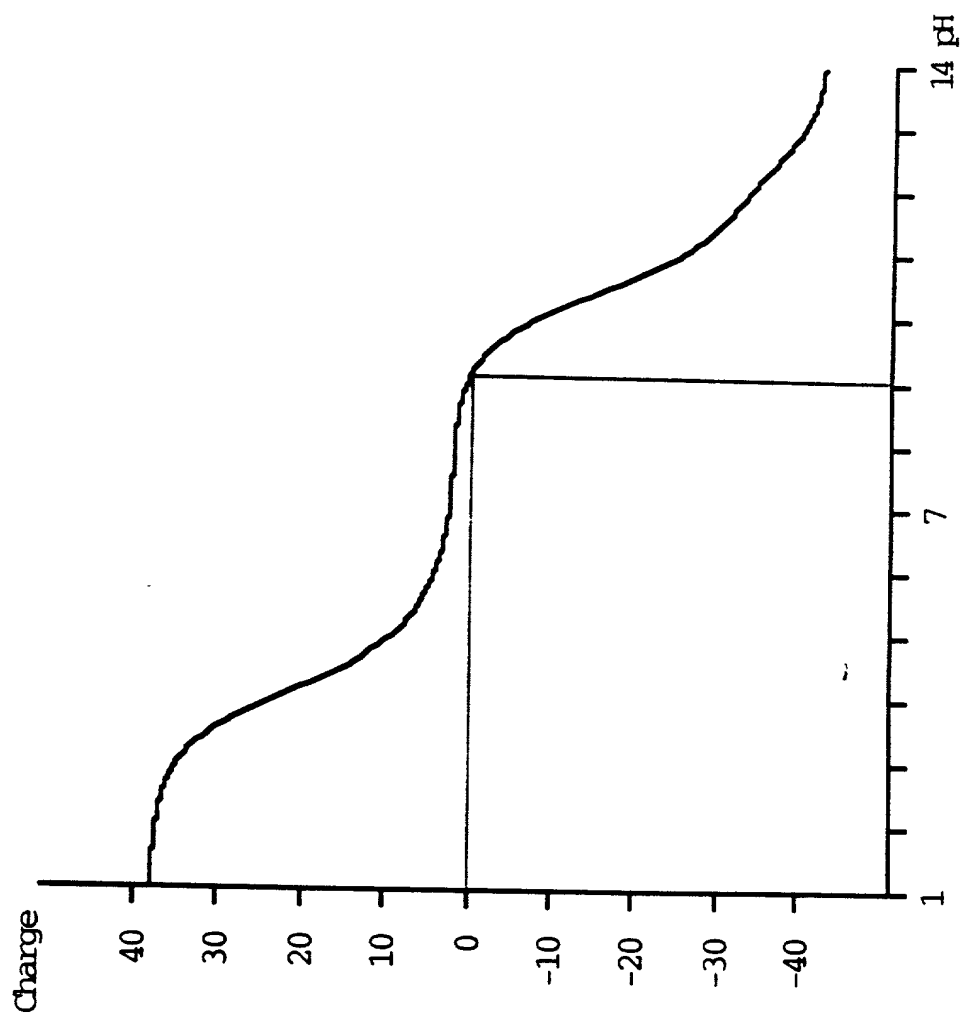


FIGURE 8

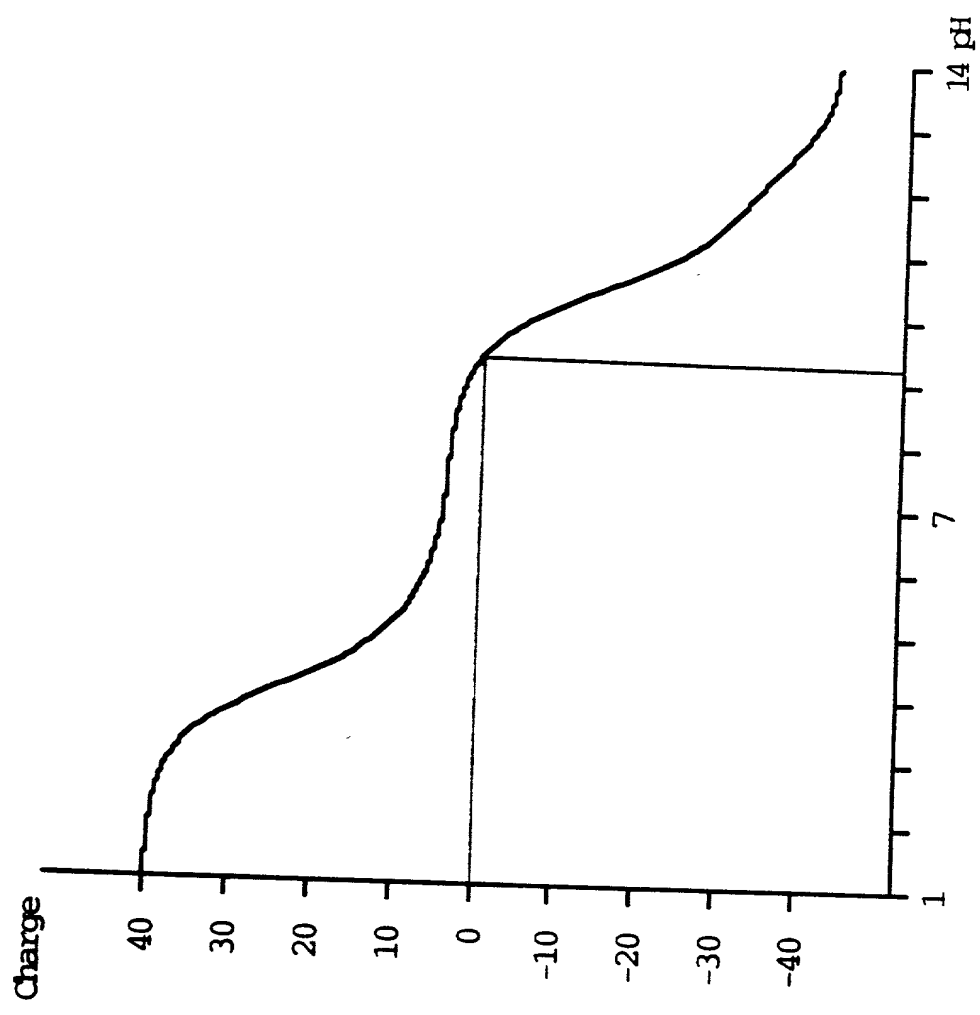


FIGURE 9